

SEQUENCE LISTING

<110> Britton, Warwick
Demangel, Caroline

<120> Compositions and Methods for Targeting
Antigen-Presenting Cells With Antibody Single-Chain Variable
Region Fragments

<130> 13311.1002U

<160> 18

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 729

<212> DNA

<213> Artificial sequence

<220>

<223> Nucleotide sequence encoding fusion protein

<400> 1

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ccaacgaagg	gtctggagtg	ggtcgcatcc	attagtccta	gtggtggtac	cacttactat	180
cgagactccg	tgaagggccg	attcactttc	tccagggata	atgcaaaaag	caccctatat	240
ctgcaaatgg	acagtctgag	gtctgaggac	acggccactt	attactgcaa	cagatcgggg	300
cacgggtata	cctactttga	ttactggggc	caagggacca	cggtcaccgt	ctcctcaggt	360
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caggacatta	gcaattatth	aacctgggtac	cagcagaaac	cagggaaagc	tcctaagctc	540
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tctgggagag	attattcttt	cactatcagc	agcctggaat	ctgaagatgt	tggatcttat	660
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aaacgggcg						729

<210> 2

<211> 243

<212> PRT

<213> Artificial sequence

<220>

<223> Fusion protein

<400> 2

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Ala	Ser	Ile	Ser	Pro	Ser	Gly	Gly	Thr	Thr	Tyr	Tyr	Arg	Asp	Ser	Val
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Lys	Gly	Arg	Phe	Thr	Phe	Ser	Arg	Asp	Asn	Ala	Lys	Ser	Thr	Leu	Tyr

65					70					75					80
Leu	Gln	Met	Asp	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys
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Ser	Gly	Gly	Gly	Gly	Ser	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser
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Leu	Pro	Ala	Ser	Leu	Gly	Asp	Arg	Val	Thr	Ile	His	Cys	Gln	Ala	Ser
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Gln	Asp	Ile	Ser	Asn	Tyr	Leu	Thr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys
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Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Arg	Asp	Tyr	Ser	Phe	Thr
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Ile	Ser	Ser	Leu	Glu	Ser	Glu	Asp	Val	Gly	Ser	Tyr	Tyr	Cys	Gln	His
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Lys	Arg	Ala													

<210> 3

<211> 1623

<212> DNA

<213> Artificial Sequence

<220>

<223> Nucleotide sequence encoding fusion protein

<400> 3

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cgagactccg	tgaagggccg	attcactttc	tccagggata	atgcaaaaag	caccctatat	240
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cacgggtata	cctactttga	ttactggggc	caagggacca	cggtcaccgt	ctcctcaggt	360
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cccgccgagt	tcttgagaga	cttcgttcgt	agcagcaacc	tgaagttcca	ggatgcgtac	1500

aacgccgcgg	gcgggcacaa	cgccgtgttc	aacttcccgc	ccaacggcac	gcacagctgg	1560
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ggc						1623

<210> 4
 <211> 726
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Nucleotide sequence encoding fusion protein

<400> 4						
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cctgaacagg	gacttgagtg	gattggatgg	atttttcctg	gagaggggag	tactgaatac	180
aatgagaagt	tcaagggcag	ggccacactg	agtgtagaca	agtcctccag	cacagcctat	240
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tactataggc	gctactttga	cttgtggggc	caagggacca	cggtcaccgt	ctcctcaggt	360
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tctccatcat	ttctgtctac	atctcttgga	aacagcatca	ccatcacttg	ccatgccagt	480
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tctggaacag	attatatttt	cactatcagc	aacctacagc	ctgaagatat	tgccacttat	660
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aaacgg						726

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 <212> PRT
 <213> Rat

<400> 5																
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			20					25					30			
Asp	Ile	Asp	Trp	Val	Arg	Gln	Thr	Pro	Glu	Gln	Gly	Leu	Glu	Trp	Ile	
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Gly	Trp	Ile	Phe	Pro	Gly	Glu	Gly	Ser	Thr	Glu	Tyr	Asn	Glu	Lys	Phe	
	50					55				60						
Lys	Gly	Arg	Ala	Thr	Leu	Ser	Val	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr	
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Met	Glu	Leu	Thr	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Phe	Cys	
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Ala	Arg	Gly	Asp	Tyr	Tyr	Arg	Arg	Tyr	Phe	Asp	Leu	Trp	Gly	Gln	Gly	
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			115													

<210> 6
 <211> 110
 <212> PRT
 <213> Rat

<400> 6															
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Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Ser	Gly	Asn	Ala	Pro	Gln	Leu	Leu	Ile
		35						40					45		
Tyr	Lys	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
		50						55					60		
Ser	Gly	Ser	Gly	Thr	Asp	Tyr	Ile	Phe	Thr	Ile	Ser	Asn	Leu	Gln	Pro
65						70					75				80
Glu	Asp	Ile	Ala	Thr	Tyr	Tyr	Cys	Gln	His	Tyr	Gln	Ser	Phe	Pro	Trp
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<210> 7

<211> 261

<212> PRT

<213> Artificial sequence

<220>

<223> Fusion protein

<400> 7

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			20					25					30		
Pro	Gly	Ala	Ser	Val	Lys	Leu	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Ile	Phe
		35						40					45		
Thr	Ser	Tyr	Asp	Ile	Asp	Trp	Val	Arg	Gln	Thr	Pro	Glu	Gln	Gly	Leu
		50				55					60				
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65					70					75					80
Glu	Lys	Phe	Lys	Gly	Arg	Ala	Thr	Leu	Ser	Val	Asp	Lys	Ser	Ser	Ser
				85					90					95	
Thr	Ala	Tyr	Met	Glu	Leu	Thr	Arg	Leu	Thr	Ser	Glu	Asp	Ser	Ala	Val
			100					105					110		
Tyr	Phe	Cys	Ala	Arg	Gly	Asp	Tyr	Tyr	Arg	Arg	Tyr	Phe	Asp	Leu	Trp
		115					120					125			
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145					150					155					160
Pro	Ser	Phe	Leu	Ser	Thr	Ser	Leu	Gly	Asn	Ser	Ile	Thr	Ile	Thr	Cys
				165					170					175	
His	Ala	Ser	Gln	Asn	Ile	Lys	Gly	Trp	Leu	Ala	Trp	Tyr	Gln	Gln	Lys
			180					185					190		
Ser	Gly	Asn	Ala	Pro	Gln	Leu	Leu	Ile	Tyr	Lys	Ala	Ser	Ser	Leu	Gln
		195					200					205			
Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Tyr
		210				215						220			
Ile	Phe	Thr	Ile	Ser	Asn	Leu	Gln	Pro	Glu	Asp	Ile	Ala	Thr	Tyr	Tyr
225					230					235					240
Cys	Gln	His	Tyr	Gln	Ser	Phe	Pro	Trp	Thr	Phe	Gly	Gly	Gly	Thr	Lys
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Leu	Glu	Ile	Lys	Arg											
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<210> 8
 <211> 1623
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Nucleotide sequence encoding fusion protein

<400> 8

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aatgagaagt	tcaagggcag	ggccacactg	agtgtagaca	agtcctccag	cacagcctat	240
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tactataggc	gctactttga	cttgtggggc	caagggacca	cggtcaccgt	ctcctcaggt	360
ggaggcgggt	caggcgagg	tggatccggc	ggtaggggat	cggacatcca	gatgactcag	420
tctccatcat	ttctgtctac	atctcttggg	aacagcatca	ccatcacttg	ccatgccagt	480
cagaacatca	agggttgggt	agcctggtac	caacaaaagt	cagggaatgc	tcctcaactg	540
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aacgccgcgg	tcgggcacaa	cgccgtgttc	aacttcccgc	ccaacggcac	gcacagctgg	1560
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<210> 9
 <211> 5446
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Plasmid vector generated in a laboratory

<400> 9

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<212> PRT

<213> Artificifical sequence

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<400> 10

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<212> DNA

<213> Artificial Sequence

<220>

<223> Plasmid vector generated in a laboratory

<400> 12

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<210> 13

<211> 978

<212> DNA

<213> Mycobacterium tuberculosis

<400> 13

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<210> 14

<211> 325

<212> PRT

<213> Mycobacterium tuberculosis

<400> 14

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<210> 15

<211> 826

<212> DNA

<213> Mycobacterium tuberculosis

<400> 15

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<210> 16

<211> 228

<212> PRT

<213> Mycobacterium tuberculosis

<400> 16

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Ala	Thr	Ser	Ser	Thr	Pro	Arg	Glu	Ala	Pro	Tyr	Glu	Leu	Asn	Ile	Thr
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Thr	Asn	Asp	Gly	Val	Ile	Phe	Phe	Phe	Asn	Pro	Gly	Glu	Leu	Leu	Pro
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<212> DNA

<213> Mycobacterium tuberculosis

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<213> Mycobacterium tuberculosis

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Lys Gln Ser Leu Thr Lys Leu Ala Ala Ala Trp Gly Gly Ser Gly Ser
          35           40           45
Glu Ala Tyr Gln Gly Val Gln Gln Lys Trp Asp Ala Thr Ala Thr Glu
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Leu Asn Asn Ala Leu Gln Asn Leu Ala Arg Thr Ile Ser Glu Ala Gly
65           70           75           80
Gln Ala Met Ala Ser Thr Glu Gly Asn Val Thr Gly Met Phe Ala
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